

APPENDIX IV

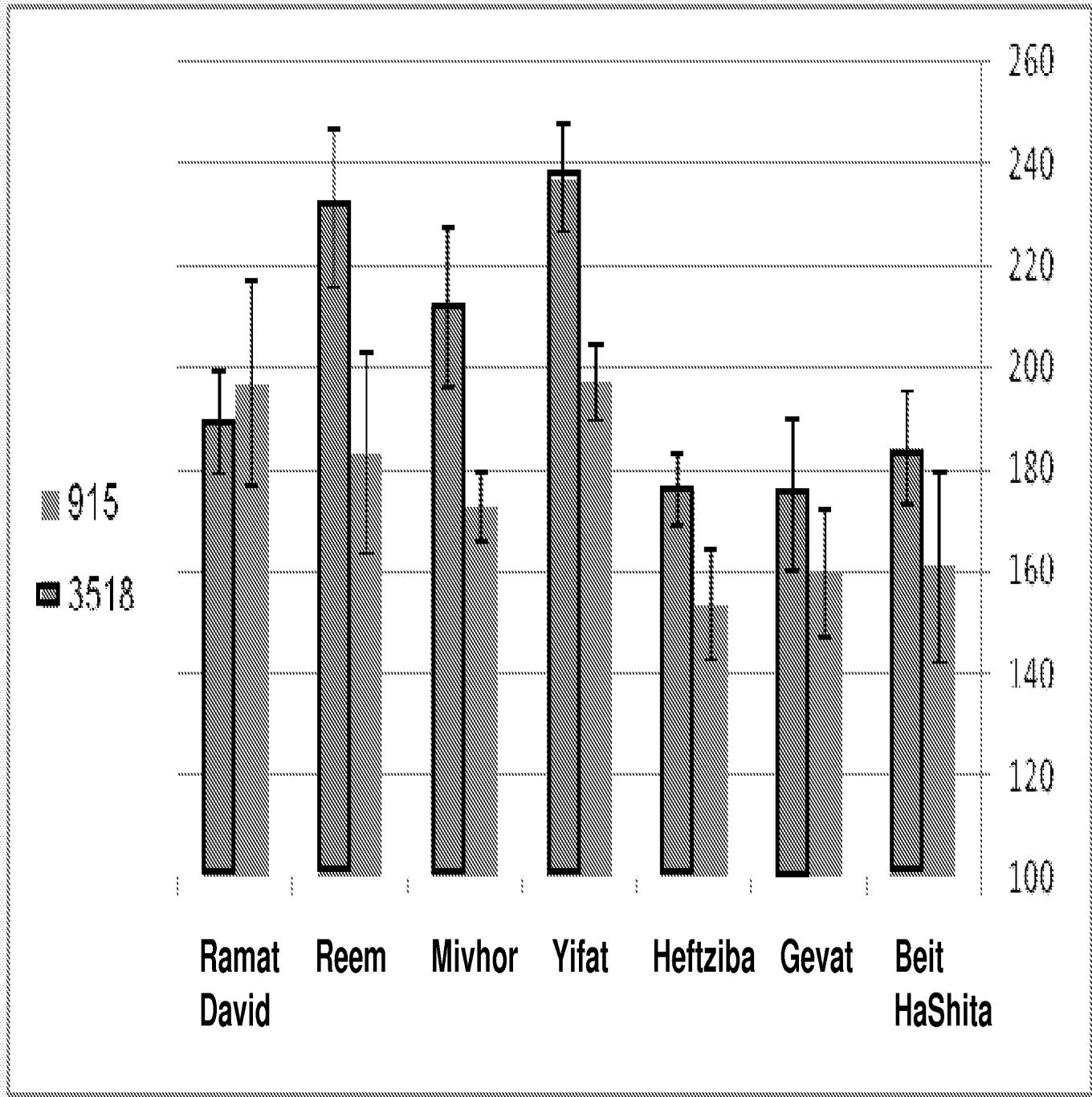


Appendix IV

Comparison between HA3518 and LRT915 (2002)

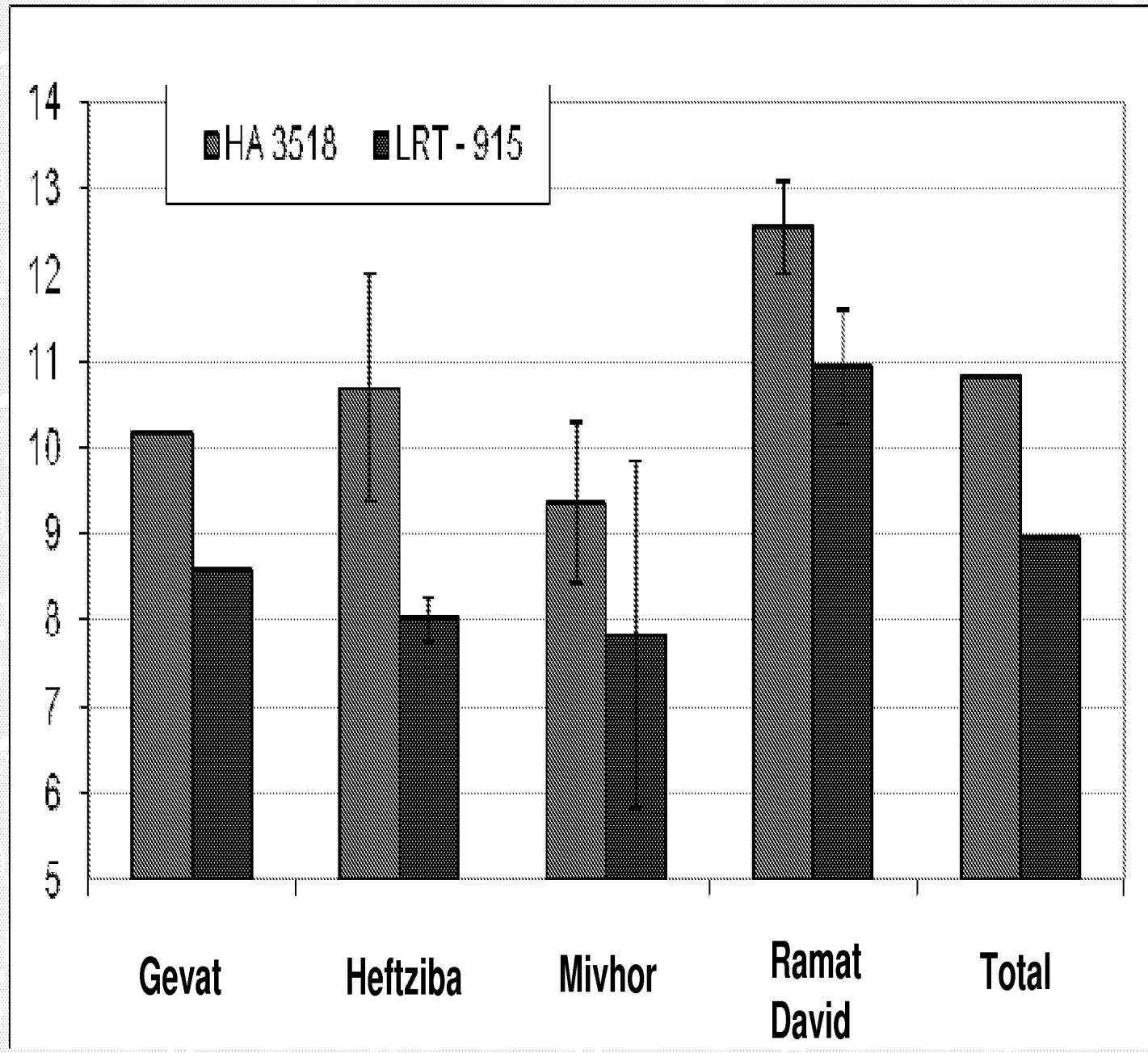


Lycopene concentration (ppm)





Fruit Yield (kg/m²)





Summary of Lycopene content at different locations

HA3518 reaches an average (at 11 locations) Lycopene content of 204 ppm.

LRT915 reaches an average Lycopene content of 188 ppm.

The total average Lycopene content of HA3518 is 8% higher than LRT915



Summary of fruit yield at the different locations

HA3518 produces an average (at 8 locations) yield of 9 kg/m²

LRT915 produces an average yield of 7.8 kg/m²

The total average yield of HA3518 is 14.5% higher than LRT915



Summary of Lycopene concentration per dunam

HA3518 has an average (at 8 locations) lycopene per dunam of 1837 ppm/dunam.

LRT915 has an average (at 8 locations) lycopene per dunam of 1481 ppm/dunam.

The lycopene per dunam of HA3518 is 20% higher than LRT915.



GENETICS



LRT915



HA3518



Table 1: Pleiotropic traits comparison

Trait/Phenotype	HA3518	LRT915
Sensitive leaves	-	+
Sudden leaf death	-	+
Brittle stems	-	+
Poor root system	-	+
Premature rotting fruits	-	+ (two weeks earlier)
Seed germination rate	High rate (about 92%)	Lower rate (about 72%)